

What is claimed is:

- 1 1. A mouse assembly comprising:
 - 2 a base having an open top;
 - 3 a frame received in the open top of the base, the frame having a protrusion which has
 - 4 a passage defined therethrough;
 - 5 a trace sphere rotatably engaged with passage of the frame and a reflection board
 - 6 received in the protrusion and located below the trace sphere, a circuit board connected to an
 - 7 underside of the frame and located below the reflection board, electronic parts and a limit
 - 8 switch connected to an underside of the circuit board, the limit switch adapted to face a surface
 - 9 on which the base is put, and
 - 10 a flexible water-proof plate mounted to a top of the protrusion of the frame and having
 - 11 an aperture with which the trace sphere is engaged.
- 1 2. The mouse assembly as claimed in claim 1, wherein the frame has a plurality of legs and each
- 2 leg having a spring connected thereto, an under board connected to an underside of the base
- 3 and the springs biased between the legs and the under board.
- 1 3. The mouse assembly as claimed in claim 1, further comprising a retaining collar received in the
- 2 passage in the protrusion and a lower portion of the trace sphere being engaged with the collar.
- 1 4. The mouse assembly as claimed in claim 1, further comprising a protection plate engaged with
- 2 the aperture of the flexible water-proof plate so as to retain an upper portion of the trace sphere.
- 1 5. The mouse assembly as claimed in claim 1, wherein a length of each of the legs is shorter than
- 2 a distance from the circuit board to the limit switch.